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Jan. 1891. Greenwich Observations of Occultations etc. 147

Observations of Occultations		of Stars by the Moon and of Phenomena of Jupiter's Satellites, made at the Royal Observatory, Greenwich, in the year 1890.	Phenomena c in the year	f Jupiter's Satell 1890.	ites, made at the Ro	nal
)	(Communicated by the Astronomer Royal.)	stronomer Roy	al.)		
		Occultations of Stars by the Moon.	by the Moon.			
Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation.	Observer.
1890 Jan. 15 (a)	Reapp. o' Libræ	Simms' No. 1	7.5	Dark	$ \begin{array}{cccc} & & & & & \\ & & & & \\ & & & & \\ & & & & $	A. M.
Feb. 7 (b)	Disapp. v Virginis	Lassell Refl.	280	Bright	80.4 9 11	Ţ.
7 (0)	", Virginis	E. Equat.	140	"	11 6 612	Ħ.
7	" Virginis	Altaz.	100	•	11 6 3.41	S. D.
7	Reapp. v Virginis	33	100	Dark	12 19 59.83	Ţ.
7	" Virginis	E. Equat.	140		26.65 61 21	Ħ.
Mar. 29 (d)	Disapp. 7 Cancri	Altaz,	100	ç	13 10 18.63	T.
Apr. 7 (e)	Reapp. C' Libræ	99	100	•	15 28 9.84	J. P.
7	" (¹ Libræ	E. Equat.	70	•	15 28 9.07	W.R.
30	Disapp. v Virginis	E. Equat.	140	•	10 58 12.83	H.
30	", Virginis	Altaz.	100	66	10 58 12:98	S. D.
30	Reapp. v Virginis	•	100	\mathbf{Bright}	11 48 22:97	S. D
May 3	Disapp. 95 Virginis	E. Equat.	140	Dark	8 50 23.13	A. D.
3	", κ Virginis	Altaz.	001	ç	13 7 31.36	H. T.
3	", κ Virginis	E. Equat.	140	£	13 7 31.36	A. D.
June $2(f)$	" w Ophiuchi	Altaz.	100	Bright	10 5 51.28	H. T.
2 (g)	" w Ophiuchi	E. Equat.	210	•	10 5 54.96	A. D

148			(Gre	enu	vich	i O	bse	rva	tio	ns (of (Occi	ultations, LI. 3,
Observer.	ij	Ţ,	Ľ,	W. R.	J. P.	A. D.	H. F.	H.	H. T.	H,	S. D.	H.	S. D.	as noted. ed, the star
Mean Solar Time of Observation.	h m s 9 59 37·12	11 12 1.88	11 12 3.98	12 41 58 48	7 54 31.36	7 54 31.14	86.6 98 or	12 30 54.72	7 22 33.00	7 22 33.64	7 22 32.74	8 21 46 19	8 21 (56.57)	time of last contact with the contact with the contact of second the contact of t
Moon's Limb.	Bright	Dark	*	,,	£	• •		"	6	*	6	Bright	,,	 (b) Star seemed to hang on limb for 1s. (c) Instantaneous. (d) Instantaneous. (e) Instantaneous. (f) Cloudy; doubtful whether occulted by Moon or cloud instantaneously, but gradually faded away. (m) Star very faint. (o) Star some distance from Moon's limb when first seen.
Power.	09	9	9	70	100	70	100	140	280	140	100	140	001	(b) Star seemed to the had a perceptible (c) Instantaneous. Ation, but it is believed (i) Cloudy; doubtfinstantaneously, but (m) Star very faint. (o) Star some distantaneously.
Telescope,	E. Equat.	*	,,	ť	Altaz.	E. Equat.	Altaz.	E, Equat.	Lassell Refl.	E. Equat.	Altaz.	E. Equat.	Altaz.	Notes. (b) mb; the disappearance (c) fore time of observatio seem to disappear instance. (i) aps late. (i) (i)
Phenomenon.	Disapp. 8 ² Scorpii	Reapp. β^2 Scorpii	", β^1 Scorpii	" Piazzi v. 192	Disapp. 24 Ophiuchi	" 24 Ophiuchi	" 30 Piscium	" 33 Piscium	" §¹ Ceti	" §¹ Ceti	" §¹ Ceti	Reapp. \$' Ceti	" §¹ Ceti	Cloudy. Star appeared to glide belind Moon's limb; the disappearance had a perceptible duration; the time of last contact was noted. Star faint. Clouds began to sweep over about 4* before time of observation, but it is believed that the true occultation was observed, the star being close to the Moon's limb. Clouds passing. (i) Cloudy; doubtful whether occulted by Moon or cloud. Moon's limb nearly full. Star did not seem to disappear instantaneously, but gradually faded away. Star disappeared into Moon's rough limb. (o) Star some distance from Moon's limb when first seen.
Day.	1890 June 29 (i) D	29 R	29	Sept. 6	20 D	20	27 (i)	27(k)	Oct. 27 (l)	27	27 (m)			 (a) Cloudy. (b) Star appeared to (d) Star faint. (f) Clouds began to being close to (g) Clouds passing. (k) Moon's limb near (k) Star disappeared (n) Observation not (n)

Jan.	1891		and of Phenomena of Jupiter's Satellites.										8.	149						
	Observer.	н. т	:	, W	W. K.	;	÷ ,	i	**	:	"	£ (χ.	ij	÷ 6	; ;	H. F.	2 8	Ţ.	•
	lar J N.A.	12 44 19	12 53			12 14		0 21			11 41		11 37	8 55		12 45 54			13.56	
	Mean Solar Time of Observation. h m s	43	12 51 31	12 55 45	12 12 40	12 13 58	12 16 6)	9 17 29	9 22 35	11 35 50	11 37 53	11 40 14	11 36 4	8 52 51	8 57 6	12 44 48	12 44 2	12 46 11	13 54 11	13 57 46
llites.	Power.	210	2	;			,,	100		140	"	æ	100	09	11	210	100		210	î
Phenomena of Jupiter's Satellites.	Telescope.	E. Equat.	66				,,	Altaz.		E. Equat.		"	Altaz.	E. Equat.	**		Altaz.	66	E. Equat.	,,
Phenomeno	Phenomenon.	Ecl. R. First seen	Occ. D. First contact	Last seen	Tr. Ing. First contact	Bisection	Last seen	Tr. Ing. First contact	Last seen	Tr. Egr. First seen	Bisection	Last contact	Occ. R. First seen	Occ. D. First contact	Last seen	Ecl. R. First seen	First seen	Full brightness	Occ. D. First contact	Last seen
	Satellite.	III.	III.								II.	III.	ï	III.	111.	III.	III.	III.	H	ij
	Day.	or ann Jose	61	61	$\operatorname{July 19}(a)$	01	61	98	98	98	<u>2</u> 6	26	782	Aug. I	⊢	н	1	. 	п	